



UTAH DEPARTMENT of
ENVIRONMENTAL QUALITY
**WATER
QUALITY**

UPDES General Permit For Treated Ground Water

NOI

Notice of Intent (NOI)
for Coverage Under the
UPDES General Permit for Treat Ground Water
UPDES Permit No. UTG790000

Submission of this Notice of Intent constitutes notice that the party identified in Part II. of this form intends to be authorized by UPDES General Permit No. UTG790000, issued for discharges of treated ground water to surface waters in the State of Utah. Coverage of this permit obligates such dischargers to comply with the terms and conditions of the permit.

PLEASE PROVIDE ALL REQUIRED INFORMATION

You must print or type legibly; forms that are not legible, incomplete, or unsigned will be returned. You must maintain a copy of the completed NOI form for your records.

PART I. (NOTE: THIS SECTION FOR DIVISION OF WATER QUALITY USE ONLY. *Skip to Part II.*)

THIS SECTION FOR DIVISION OF WATER QUALITY USE ONLY

Coverage Number: UTG79- _____

COVERAGE DATES: _____ / _____ /20 _____ TO _____ / _____ /20 _____

RECEIVING WATER: _____ CLASSIFICATION: _____

EFFLUENT LIMITATIONS BASED ON PERMIT Part I.D Part I.E

ADDITIONAL MONITORING AND/OR EFFLUENT LIMITATIONS:

DIVISION PERMIT OF COVERAGE ISSUANCE:

DATE: _____ / _____ / 20 _____ SIGNATURE: _____

Once coverage is assigned discharge monitoring reports will be generated and provided to the operator.

PART II. CONTACT INFORMATION (used for permit correspondence)

Organization Name: Headwaters Construction

Contact Name: Bruce Keen Title: Superintendent

Phone Number: 801-440-5571 Email: bkeen@headwaterscc.com

Mailing Address: Street (PO Box): 639 W 9500 S, STE 1

City: Victor State: ID Zip: 83445

Owner/Manager Name: Gardner Batt

Phone Number: 801-573-3978 Email: mbatt@gardnerbatt.com

Legal Status of Owner/Operator: Private



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PART III. PROJECT SITE LOCATION

Project Lead Name: Eric Albaugh Project Lead Phone: 208-201-8734
 Project Site Name: Village at North Station
 Project Street/Location: 1925 W North Temple
 City: Salt Lake City County: Salt Lake State: UTAH Zip: 84116
 Project Site Phone: 801-440-5571
 Project latitude and longitude location in **degree decimal**.
 Latitude 40.770044 Longitude _____

PART IV. PROJECT DESCRIPTION

Description of cleanup site, including a description of the source(s) of contamination and the extent of contamination and any additional contamination anticipated in the local ground water from other possible sources:

This project is building over 800 units of low income apartment housing. The project encountered contaminated soils during the planning phase. The project has completed environmental remediation and removed the contaminated soils from the site. This project requires a Treated groundwater permit to remove snowmelt surface water and dewater utility trenches to a depth of 16 feet. Additional sampling was done at the trench location.

PART V. MAP

Attach a topographical map of the area extending to at least 1 mile beyond the property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its waste treatment, storage, or disposal facilities, and discharge locations. Include all springs, rivers, and other surface water bodies in the map.

Map Attached

PART VI. PROJECT DATES

Filing your permit will grant you one year of coverage from the filing date regardless of the project duration outlined below. If you project ends early, you must file a Notice of Termination (NOT).

Project Start Date: 03 / 21 /20 22

Project Completion Date: 06 / 21 /20 22

Notes:



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PART VII. DISCHARGE LOCATION(S)

List the Latitude and Longitude of the Discharge Point(s) in **degree decimal** with the Receiving Water.

Outfall No.	Latitude	Longitude	Receiving Surface Waters (Name)
1	40.771401	-111.946661	Jordan River

Are any of the discharge points located in the Colorado River Basin? Yes No

Does the receiving water designated uses include Class 1C drinking water as defined by R317-2-13? Yes No

Class 1C waters are "Protected for domestic purposes with prior treatment by treatment processes as required by the Utah Division of Drinking Water".

Is the project located on tribal lands? Yes No

If the facility is located on Tribal Lands the permittee must contact EPA Region VIII except for facilities on the Navajo Reservation or the Goshute Reservation, for which the permittee must contact EPA Region IX.

Does the discharge flow into a storm drain before entering the receiving water body? Yes No

Be Advised: Discharges to storm drains must be approved by the storm drain authority/owner.

Description of Discharge location and conveyance system to live water:

The discharge location is the Salt Lake City MS4. A separate permit will be applied for with the SLC Stormwater Department. Water will be discharged into the storm drain before it is conveyed to the receiving waters - Jordan River.

PART VIII. INFLUENT AND EFFLUENT CONCENTRATIONS

Complete attached **Table A** and list any additional pollutants (not included in Table A) with influent and/or effluent concentrations here:

Table A complete. Sampling data attached.

_____	_____
_____	_____
_____	_____



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PART VIII. INFLUENT AND EFFLUENT CONCENTRATIONS *continued*

Discharge **IS** to Class 1C Water:

1. In addition to completing Table A, influent sampling including total toxic organics (TTO results must be attached. See attached Table B for list of TTO constituents. No permits for discharge to Class 1C Waters will be issued prior to influent sampling being conducted and results received.
2. An analysis of alternative disposal methods of the treated ground water must be attached. This analysis must include an economic comparison of the alternative disposal methods. If no other disposal methods are feasible the analysis must demonstrated the consideration of other methods such as trucking and/or discharge to a treatment facility.
3. If the project will last longer than one year DWQ may require Level II Antidegradation review be conducted. Please contact DWQ Staff for further information.

Discharge is **NOT** to Class 1C Water:

1. In addition to completing Table A, influent sampling including total toxic organics **OR** a report documenting why influent sampling is not needed for this project and an estimation of anticipated influent constituents concentrations.
2. In accordance with *Part I.E.* the permittee may petition Total Petroleum Hydrocarbon (TPH-GRO and TPH-DRO) analyses may be substituted for the TTO analyses. If approved Maximum Daily Effluent Limitations of 1.0 mg/LTPH-GRO and TPH-DRO will be substituted for the TTO effluent limitation.

PART IX. DESCRIPTION OF TREATMENT SYSTEM

Description of the current or proposed treatment system, including discharge flow rate (attach a flow diagram):

Contamination levels are below the State thresholds and will not require additional treatment for most pollutants. The project will treat for TSS with a

 traditional dewatering system. Water will be pumped into a 18,000 gallon weir tank and pumped through a bag filter to remove sediment.

FLOW DIAGRAM ATTACHED

PART X. CERTIFICATION AND SIGNATURE

I certify under penalty of law that this submission was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person(s) directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitted false information, including the possibility of fine and imprisonment for knowing violations. I further certify that the applicant has sufficient title, right or interest in the property where the proposed activity occurs.

Eric Albaugh

DocuSigned by:
Eric Albaugh
6AF8B899D9C14BA...

Project Manager/Headwaters 3/10/2022

**PRINT Signatory
Authority**

Signature

Title

Date



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PART XI. ADDITIONAL APPLICATIONS AND APPROVALS

1. You may need to file for a temporary application to appropriate water rights from the Division of Water Rights. Call 801.583.7240 for more information.
2. You may need to obtain approval from the Division of Air Quality if any air stripping equipment is to be employed at the cleanup site. Call 801.536.4000 for more information.

The Division of Water Quality may request addition information.

Important:

The UPDES Permit Application, must be signed as follows: (Refer to *Part IV.G. Signatory Requirements*, of the General Permit.)

- 1) For a corporation, a responsible corporate officer shall sign the NOT, a responsible corporate officer means:
 - a. A President, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
 - b. The manager of one or more manufacturing, production, or operating facilities, if
 - i. The manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;
 - ii. The manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and
 - iii. Authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- 2) For a partnership of sole proprietorship, the general partner or the proprietor, respectively; or
- 3) For a municipality, state or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of any agency means;
 - a. The chief executive officer of the agency; or
 - b. A senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

Where to File the UPDES Permit Application form:

Please submit the original form with signature via the DWQ Electronic Documents Submission Portal:

<https://deq.utah.gov/water-quality/water-quality-electronic-submissions>

You can also send by mail or hand deliver to the below address. Remember to retain a copy for your records.

**Division of Water Quality
Department of Environmental Quality
195 North 1950 West
PO Box 144870
Salt Lake City, UT 84114-4870**



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Treated Ground Water**

TABLE A

Analysis of Treatment System Influent and Effluent

You must report concentrations for each pollutant listed. Please refer to Part I.D. and Part I.E. of the permit or NOI to determine if actual influent values are required or if estimated values will be accepted.

Are influent values: **Estimated** Or **Actual**
Are effluent values: **Estimated** Or **Actual**

Parameters	Influent			Effluent		
	Avg (mg/L)	Max (mg/L)	Number of Samples	Avg (mg/L)	Max (mg/L)	Number of Samples
pH (range in standard units)	7.2	7.2	1	7.2	9	2/MONTH
Total Suspended Solids	137	137	1	20	25	MONTHLY
Total Dissolved Solids	2350	2350	1	1200	2000	MONTHLY
Total Lead	ND	ND	1	ND	ND	MONTHLY
Oil & Grease	ND	ND	1	ND	ND	MONTHLY
Benzene	ND	ND	1	ND	ND	2/MONTH
Toluene	ND	ND	1	ND	ND	MONTHLY
Ethylbenzene	ND	ND	1	ND	ND	MONTHLY
Xylenes	ND	ND	1	ND	ND	MONTHLY
Naphthalene	0.015	0.015	1	0.015	0.015	MONTHLY
MTBE	ND	ND	1	ND	ND	2/MONTH
TTO's * (attach full list if required)	SEE ATTACHED		1	SEE ATTACHED		QUARTERLY

* The permittee must analyze for all the priority toxic organics (See Table A) likely to be present in concentrations greater than 0.01 mg/L. Attach the complete TTO analysis indicating parameters sampled and their reported concentrations.



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TABLE B
Total Toxic Organic List

(These are the parameters that shall be analyzed for initially determining the total toxic organic (TTO) concentration of the wastewater)

Acrolein	Phenol	Hexachlorocyclopentadiene
Acrylonitrile	2,4,6-Trichlorophenol	Hexachloroethane
Benzene	Acenaphthene	Indeno(1,2,3-Cd)Pyrene
Bromoform	Acenaphthylene	Isophorone
Carbon Tetrachloride	Anthracene	Napthalene
Chlorobenzene	Benzidine	Nitrobenzene
Chlorodibromomethane	Benzo(A)Anthracene	N-Nitrosodimethylamine
Chloroethane	Benzo(A)Pyrene	N-Nitrosodi-N-Propylamine
2-Chloroethylvinyl Ether	3,4-Benzofluoranthene	N-Nitrosodiphenylamine
Chloroform	Benzo(Ghi)Perylene	Phenanthrene
Dichlorobromomethane	Benzo(K)Fluoranthene	Pyrene
1,1-Dichloroethane	Bis(2-Chloroethoxy)Methane	1,2,4-Trichlorobenzene
1,2-Dichloroethane	Bis(2-Chloroethyl)Ether	Aldrin
1,1-Dichloroethylene	Bis(2-Chloroisopropyl)Ether	Alpha-Bhc
1,2-Dichloropropane	Bis (2-Ethylhexyl)Phthalate	Beta-Bhc
1,3-Dichloropropylene	4-Bromophenyl Phenyl Ether	Gamma-Bhc
Ethylbenzene	Butylbenzyl Phthalate	Delta-Bhc
Methyl Bromide	2-Chloronaphthalene	Chlordane
Methyl Chloride	Ether	4,4'-Ddt
Methylene Chloride	4-Chlorophenyl Phenyl	4,4'-Dde
1,1,2,2-Tetrachloroethane	Chrysene	4,4'-Ddd
Tetrachloroethylene	Dibenzo(A,H)Anthracene	Dieldrin
Toluene	1,2-Dichlorobenzene	Alpha-Endosulfan
1,2-Cis,Trans- Dichloroethylene	1,3-Dichlorobenzene	Beta-Endosulfan
1,1,1-Trichloroethane	1,4-Dichlorobenzene	Endosulfan Sulfate
1,1,2-Trichloroethane	3,3'-Dichlorobenzidine	Endrin
Trichloroethylene	Diethyl Phthalate	Endrin Aldehyde
Vinyl Chloride	Dimethyl Phthalate	Heptachlor
2-Chlorophenol	Di-N-Butyl Phthalate	Heptachlor Epoxide
2,4-Dichlorophenol	2,4-Dinitrotoluene	Pcb-1242
2,4-Dimethylphenol	2,6-Dinitrotoluene	Pcb-1254
4,6-Dinitro-O-Cresol	Di-N-Octyl Phthalate	Pcb-1221
2,4-Dinitrophenol	1,2-Diphenylhydrazine (As Azobenzene)	Pcb-1232
2-Nitrophenol	Fluoranthene	Pcb-1248
4-Nitrophenol	Fluorene	Pcb-1260
P-Chloro-M-Cresol	Hexachlorobenzene	Pcb-1016
Pentachlorophenol	Hexachlorobutadiene	Toxaphene



3/9/2022

Work Order: 22C0198
Project: 2596-001

Wasatch Environmental
Attn: Chris Nolan
2410 West California Avenue
Salt Lake City, UT 84104

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Mark Broadhead, Project Manager



Wasatch Environmental
2410 West California Avenue
Salt Lake City, UT 84104

Project: 2596-001

Project Manager: Chris Nolan

<u>Laboratory ID</u>	<u>Sample Name</u>
22C0198-01	Village At North Temple

Amended Report Narrative

Report Changes:

Per client request the full volatile list was added to the report.



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Certificate of Analysis

Wasatch Environmental
Chris Nolan
2410 West California Avenue
Salt Lake City, UT 84104

PO#:
Receipt: **3/2/22 13:57 @ 6.6 °C**
Date Reported: 3/9/2022
Project Name: **2596-001**

Sample ID: **Village At North Temple**Matrix: **Water**Lab ID: **22C0198-01**Date Sampled: **3/2/22 13:15**Sampled By: **Christopher Nolan**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Oil & Grease (HEM)	ND	mg/L	5	EPA 1664A	3/2/22	3/3/22	
pH	7.2	pH Units	0.1	SM 4500 H-B	3/2/22 16:31	3/2/22 18:30	SPH
Phosphorus, Total as P	0.08	mg/L	0.01	SM 4500 P-E/F	3/4/22	3/4/22	
Total Dissolved Solids (TDS)	2350	mg/L	20	SM 2540 C	3/2/22	3/2/22	
Total Suspended Solids (TSS)	137	mg/L	4	SM 2540 D	3/2/22	3/2/22	
Metals							
Arsenic, Total	ND	mg/L	0.05	EPA 6010B/C/D	3/4/22	3/4/22	
Barium, Total	0.539	mg/L	0.005	EPA 6010B/C/D	3/4/22	3/4/22	
Cadmium, Total	ND	mg/L	0.005	EPA 6010B/C/D	3/4/22	3/4/22	
Chromium, Total	ND	mg/L	0.005	EPA 6010B/C/D	3/4/22	3/4/22	
Lead, Total	ND	mg/L	0.02	EPA 6010B/C/D	3/4/22	3/4/22	
Mercury, Total	ND	mg/L	0.0002	EPA 7470A	3/4/22	3/4/22	
Selenium, Total	ND	mg/L	0.05	EPA 6010B/C/D	3/4/22	3/4/22	
Silver, Total	ND	mg/L	0.005	EPA 6010B/C/D	3/4/22	3/4/22	
MBTEXn							
Benzene	ND	mg/L	0.005	EPA 8260B/C 5030A	3/2/22	3/2/22	
Ethylbenzene	ND	mg/L	0.012	EPA 8260B/C 5030A	3/2/22	3/2/22	
Methyl tert-Butyl Ether (MTBE)	ND	mg/L	0.005	EPA 8260B/C 5030A	3/2/22	3/2/22	
Naphthalene	0.015	mg/L	0.012	EPA 8260B/C 5030A	3/2/22	3/2/22	
Toluene	ND	mg/L	0.012	EPA 8260B/C 5030A	3/2/22	3/2/22	
Xylenes, total	ND	mg/L	0.012	EPA 8260B/C 5030A	3/2/22	3/2/22	
Gasoline Range							
Gasoline Range Organics	0.622	mg/L	0.125	EPA 8260B/C /5030A	3/2/22	3/2/22	
Diesel Range							
Diesel Range Organics	ND	mg/L	1.0	EPA 8015C/3510B	3/2/22	3/2/22	
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,1,1-Trichloroethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,1,2,2-Tetrachloroethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,1,2-Trichloroethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,1-Dichloroethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,1-Dichloroethene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
p-Dioxane	ND	ug/L	500	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,1-Dichloropropene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
2-Hexanone	ND	ug/L	250	EPA 8260B/C /5030A	3/2/22	3/2/22	
Iodomethane	ND	ug/L	25.0	EPA 8260B/C /5030A	3/2/22	3/2/22	

Project Name: **2596-001**CtF WO#: **22C0198**

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PO#:
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Date Reported: 3/9/2022
Project Name: **2596-001**

Sample ID: **Village At North Temple (cont.)**Matrix: **Water**Lab ID: **22C0198-01**Date Sampled: **3/2/22 13:15**Sampled By: **Christopher Nolan**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Volatile Organic Compounds (cont.)							
Vinyl Acetate	ND	ug/L	125	EPA 8260B/C /5030A	3/2/22	3/2/22	
trans-1,4-Dichloro-2-butene	ND	ug/L	25.0	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,2,3-Trichlorobenzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,2,3-Trichloropropane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,2,4-Trichlorobenzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,2,4-Trimethylbenzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,2-Dibromoethane (EDB)	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,2-Dichlorobenzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,2-Dichloroethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,2-Dichloropropane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,3,5-Trimethylbenzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,3-Dichlorobenzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,3-Dichloropropane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
1,4-Dichlorobenzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
2,2-Dichloropropane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
2-Chlorotoluene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
2-Nitropropane	ND	ug/L	125	EPA 8260B/C /5030A	3/2/22	3/2/22	
4-Chlorotoluene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Acetone	ND	ug/L	125	EPA 8260B/C /5030A	3/2/22	3/2/22	
Acrylonitrile	ND	ug/L	125	EPA 8260B/C /5030A	3/2/22	3/2/22	
Bromobenzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Bromochloromethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Bromodichloromethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Bromoform	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Bromomethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Carbon Disulfide	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Carbon Tetrachloride	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Chlorobenzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Chloroethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Chloroform	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Chloromethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
cis-1,2-Dichloroethene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
cis-1,3-Dichloropropene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Cyclohexanone	ND	ug/L	250	EPA 8260B/C /5030A	3/2/22	3/2/22	
Dibromochloromethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Dibromomethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	

Project Name: **2596-001**CtF WO#: **22C0198**



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Salt Lake City, UT 84104

PO#:
Receipt: **3/2/22 13:57 @ 6.6 °C**
Date Reported: 3/9/2022
Project Name: **2596-001**

Sample ID: **Village At North Temple (cont.)**

Matrix: **Water**

Lab ID: **22C0198-01**

Date Sampled: **3/2/22 13:15**

Sampled By: **Christopher Nolan**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Volatile Organic Compounds (cont.)							
Dichlorodifluoromethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Ethanol	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Ethyl Acetate	ND	ug/L	125	EPA 8260B/C /5030A	3/2/22	3/2/22	
Ethyl Ether	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Heptane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Hexachlorobutadiene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Isobutanol	ND	ug/L	125	EPA 8260B/C /5030A	3/2/22	3/2/22	
Isopropyl Alcohol	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Isopropylbenzene	13.1	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Methyl Ethyl Ketone	ND	ug/L	125	EPA 8260B/C /5030A	3/2/22	3/2/22	
Methyl Isobutyl Ketone	ND	ug/L	125	EPA 8260B/C /5030A	3/2/22	3/2/22	
Methylene Chloride	ND	ug/L	25.0	EPA 8260B/C /5030A	3/2/22	3/2/22	
n-Butyl Alcohol	ND	ug/L	500	EPA 8260B/C /5030A	3/2/22	3/2/22	
n-Butylbenzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Nitrobenzene	ND	ug/L	250	EPA 8260B/C /5030A	3/2/22	3/2/22	
n-Propyl Benzene	46.9	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
p-Isopropyltoluene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
sec-Butyl Benzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Styrene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
tert-Butylbenzene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Tetrachloroethene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Tetrahydrofuran	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
trans-1,2-Dichloroethene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
trans-1,3-Dichloropropene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Trichloroethene	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Trichlorofluoromethane	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	
Vinyl Chloride	ND	ug/L	12.5	EPA 8260B/C /5030A	3/2/22	3/2/22	



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Certificate of Analysis

Wasatch Environmental
Chris Nolan
2410 West California Avenue
Salt Lake City, UT 84104

PO#:
Receipt: **3/2/22 13:57 @ 6.6 °C**
Date Reported: 3/9/2022
Project Name: **2596-001**

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

SPH = Sample submitted past method specified holding time.



American West Analytical Laboratories

3440 S. 700 W. Salt Lake City, UT 84119
 Phone # (801) 263-8686 Toll Free # (888) 263-8686
 Fax # (801) 263-8687 Email awal@awal-labs.com
www.awal-labs.com

CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

AWAL Lab Sample Set #
 Page 1 of 1

Client: **Wasatch Environmental**
 Address: **2410 W California Ave**
Salt Lake City, Utah 84104
 Contact: **Christopher J. Nolan, P.G.**
 Phone #: **801.972.8400** Cell #: **801.520.2036**
 Email: cn@wasatch-environmental.com
 Project Name: **Village At N Temple**
 Project #: **2596-001**
 PO #:
 Sampler Name: **Christopher Nolan**

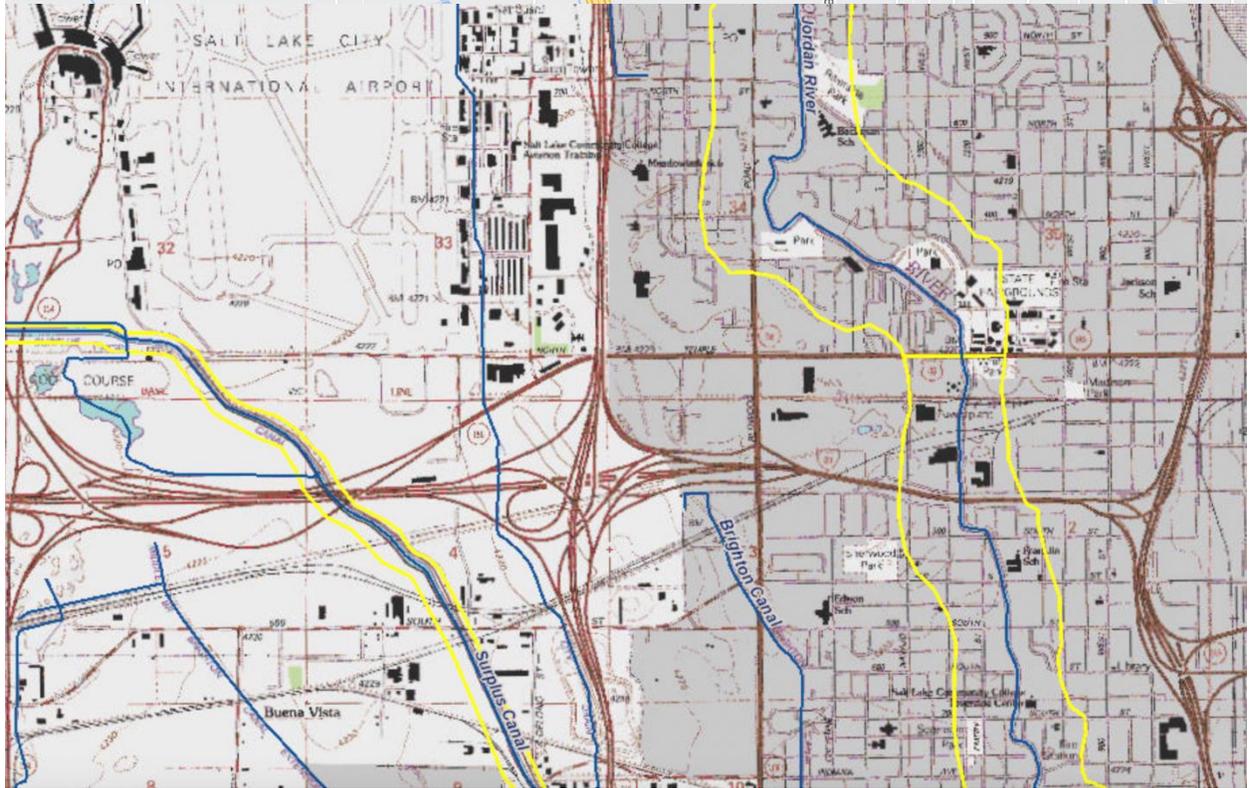
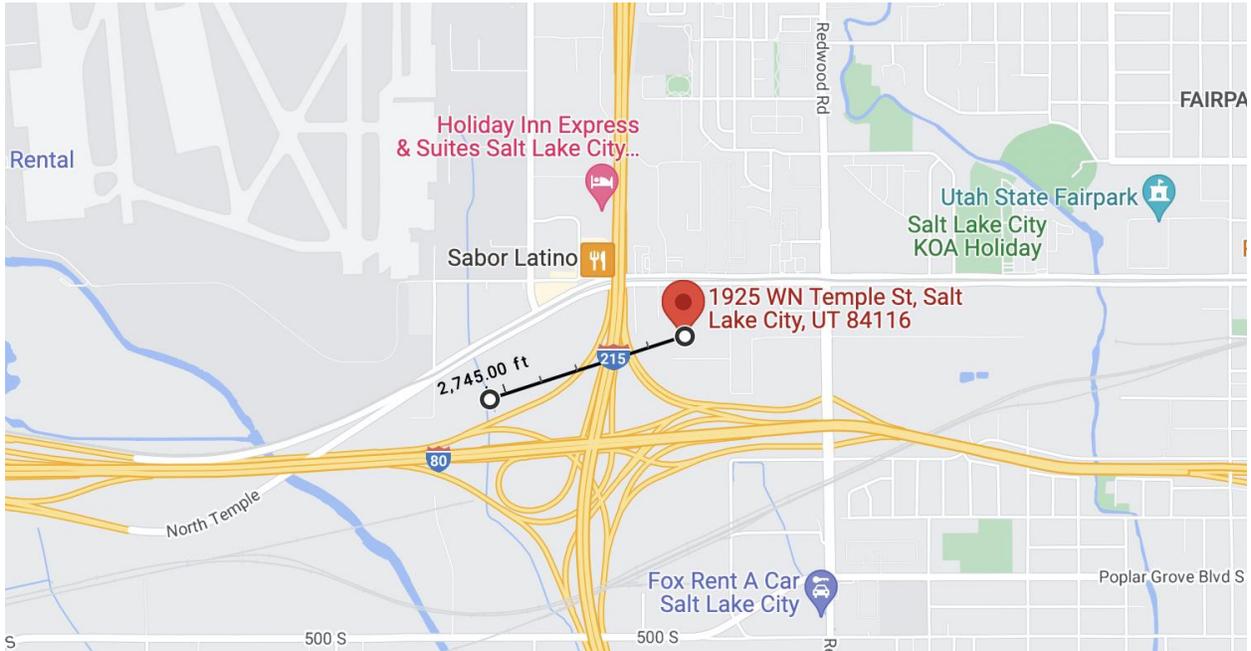
QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:		
1	2 2+ 3 3+	1	2 3 4 5 Std					
# of Containers Sample Matrix total RCRA metals pH Total Suspended Solids (TSS) Total Dissolved Solids (TDS) BTEXN, TPH-GRO by 8260D TPH-DRO by 8015 Oil and Grease 1664 phosphate SM 4500-P-F					<input type="checkbox"/> Report down to the MDL <input type="checkbox"/> Include EDD: <input type="checkbox"/> Lab Filter for: <input type="checkbox"/> Field Filtered For: For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other: SLC waste water permit	Laboratory Use Only Samples Were: 1 Shipped or hand delivered 2 Ambient or Chilled 3 Temperature <u>6.6</u> °C 4 Received Broken/Leaking (Improperly Sealed) Y N 5 Properly Preserved Y N Checked at bench 6 Received Within Holding Times Y N		
	10	W	X	X	X	X	X	Known Hazards & Sample Comments

RUSH
S-8194, ULINE, 800-295-5510

Sample ID:	Date Sampled	Time Sampled
01 22C0198 Village At North Temple	3/2/2022	1315

Relinquished by: Signature: <i>[Signature]</i> Print Name: CHRISTOPHER NOLAN	Date: 3/2/22 Time: 1357	Received by: Signature: <i>[Signature]</i> Print Name: Aimee Rust	Date: 3/2/22 Time: 1357	Special Instructions:
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	

VILLAGE AT NORTH STATION MAPS





-  Perimeter Control (3)
-  Job trailer (1)
-  Dumpster (7)
-  Material Storage (3)
-  Swppp sign & NOI (1)
-  Drain Inlet (5)
-  Concrete washout sign (1)
-  Toilet (2)
-  Track-out pad (2)

VILLAGE AT NORTH STATION FLOW DIAGRAM

Name of Discharge Location	BMPs Utilized	Maximum Flow Capacity of BMP (if applicable)
A	Pump Well Point	50 gallons/minute
A	18,000 gallon weir box	5,000 gallon capacity 300 gallons/minute discharge
A	2" – 4" piping with fittings	250 gallons/minute
A	Sediment Filter Bag	1680 gallons/minute

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Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inaccuracies.

SECTION: 2.15.890
F42770
1120
Supersedes
0619

TECHNICAL DATA SHEET FLOW-MATE SERIES Model 98 Submersible Effluent/Dewatering Pump

PRODUCT SPECIFICATIONS

MOTOR	Horse Power	1/2
	Voltage	115 or 230
	Phase	1 Ph.
	Hertz	60 Hz
	RPM	1725
	Type	Permanent split capacitor
	Insulation	Class B
	Amps	4.7 - 6.4
	Operation	Automatic or nonautomatic
	Auto On/Off Point	8-12" (24 cm) ± 2" (2.6 cm)
PUMP	Discharge Size	1 1/2" NPT
	Solids Handling	1/2" (13 mm) spherical solids
	Cord Length	15 (5 m) standard
	Cord Type	UL listed
	Max. Head	23 (7 m)
	Max. Flow Rate	22 GPM (723 LPM)
	Max. Operating Temp.	130° F (54° C)
	Coating	Oil filled
	Motor Protection	Auto reset thermal overload
MATERIALS	Cap	Cast iron
	Motor Housing	Cast iron
	Pump Housing	Cast iron
	Base	Engineered thermoplastic
	Upper Bearing	Oil-fid cast iron
	Lower Bearing	Oil-fid cast iron
	Mechanical Seals	Carbon and ceramic
	Impeller Type	Non-clogging vortex
	Impeller	Engineered plastic
	Hardware	Stainless steel
	Motor Shaft	AISI 316 cold rolled steel
	Gasket	Neprene

NOTE: See model comparison chart for specific details.

Steel Tank

Flat Top Smooth Wall

Overview:

Store liquids with confidence with Rain for Rent's Flat Top Smooth Wall tank. Permanently attached axles, for maximum maneuverability, allows this tank to be moved with ease on the jobsite. The staircase ensures proper protection for workers on site. The tank also offers optional epoxy coating, which offers chemical resistance and additional cleanliness for sensitive environmental applications.



Features:

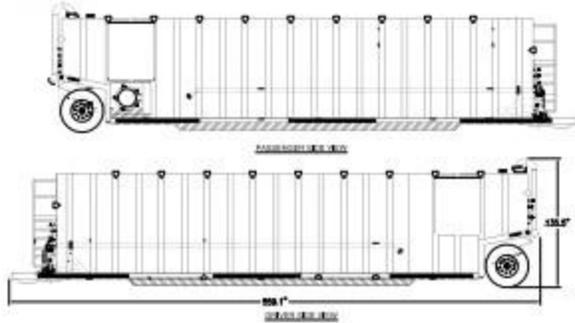
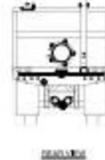
- Vapor Tight Tanks: rated to 150psi of pressure and 0.4oz/in² of vacuum
- V-drain floor with front and rear 4" 150-lb flanges with valves
- OSHA Compliant Stairway
- 1.5" SCH80 level gauge port
- 8" External manifold or internal manifold
- Rear 3" or 6" SCH40 fill line
- Optional: Epoxy Coating - chemical resistance for a wide variety of chemical compatibility and keeps stored product within the tank cleaner
- Optional: Steam Coils

Accessories:

- E-CONTAIN[®] Spillguards
- SolidGround[™] Traction Mats
- Radar Level Gauge
- Mechanical Level Gauge
- PipeStax[®]
- HoseTrax[®]
- Suction and Discharge Hose

Specs:

Material	Steel, Epoxy Coated (Option)
Capacity	21,000 gallons
Manways	Four 22" hatches
Dry weight	29,500 lbs.
Footprint (LxWxH)	560" x 102" x 120"



PUMPS • TANKS • FILTRATION • PIPE • SPILLGUARDS

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Liquid Ingenuity.
800.742.7246
rainforrent.com

Sewage and Trash Pump

DV80c

Overview:

The 4" suction x 3" discharge self-priming centrifugal DV80c trash pump provides up to a maximum of 880 gallons per minute pumping and up to 125 feet of head. This pump is usually mounted on a trailer and features the standard PowerPrime Clean Prime Venturi priming system which allows it to run continuously, unattended and even run dry.

Features:

- Continuous self-priming
- Runs dry unattended
- 12 volt, electric start with auto-start capable control panel
- Flex coupled to diesel engine
- 24-hour minimum capacity fuel tank
- Belt driven compressor fitted to operate the air-ejector priming system
- Cast iron wet end with open impellers
- Replaceable wear plates

Specs:

Maximum Flow	880 GPM
Maximum Head	125 feet
Pump Size	4" x 3"
Maximum Solids Handling	3 inches
Dry weight	2,200 lbs.
Footprint: Trailer mounted model	94.75" x 52.25"
Fuel tank	40 or 60 gallon
Fuel consumption	0.96 gph @ 2,800 RPM



Accessories:

- Spillguard
- Suction and Discharge Hoses
- Fuel Nurse Tank

Bag Filter

BF100

Overview:

The BF100 bag filter unit features one bag filter tank and utilizes 7" x 30" bag filters for superior filtration from 100 to 1 micron for flows up to 100 GPM.



Features:

- No moving parts
- Skid mounted
- Fitted with bleed valves and pressure gauges
- Chambers constructed of 304 Stainless Steel
- Piping constructed of 304 stainless steel
- Stainless Steel inlet and outlet manifolds

Specs:

Max Flow	100 GPM
Material	Stainless Steel
Max PSI	125 PSI
Dry weight	325 lbs.
Footprint:	48" x 36"
Inlet x outlet	2" x 2" Flange

Accessories:

- Spillguard
- Suction and Discharge Hoses



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ANALYSIS OF ALTERNATIVE DISPOSAL METHODS

- 1.) The Village at North Station proposes disposing of water with a traditional dewatering system. The water will be treated for TSS and monitored for pollutants required under the Treated Groundwater Permit. Our sampling shows the contamination levels are below the effluent limitations in permit UTG790000. We believe that no further treatment will be required to meet the requirements of the permit. This method of treatment will have an initial cost of \$10,000 for permitting and mobilization. The monthly cost to pump and treat the water will be approximately \$20,000. A 3-month project has a projected budget of \$70,000.
- 2.) The second alternative for disposal would be to treat the water for contamination discovered during sampling. The project would be required to install a media filter to clean the contamination from the water prior to discharge. This would likely require a carbon filter to treat for hydrocarbons. Installation of this alternative would add approximately \$50,000 per month to the project. The 3-month project budget would be \$220,000.
- 3.) The third alternative would be to haul the water away from the site. This is not a feasible alternative due to the cost. The minimum disposal cost for 5,000 gallons of water is \$2,500 at AET Environmental. This does not include the cost of drivers and time onsite. The minimum cost would be \$60,000 per day. The 3-month project budget would be \$5.4 million. Disposal at a treatment facility is not a viable alternative.